

## modern versatile building material



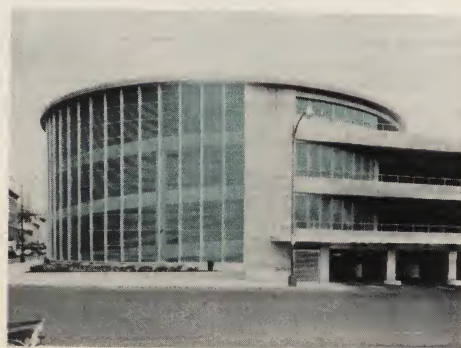
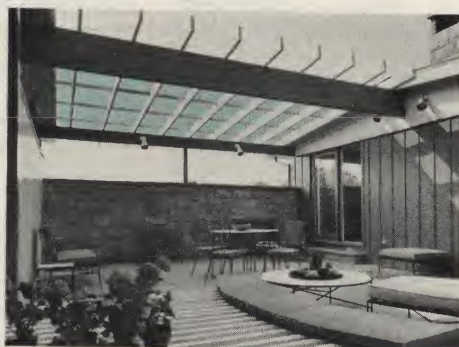
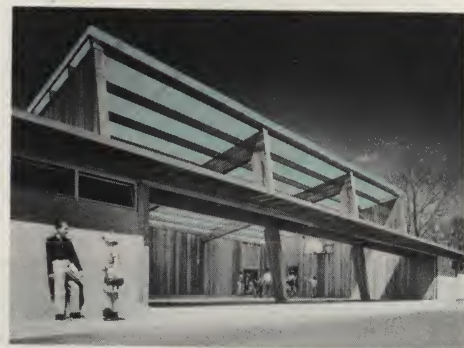
**ALSYNITE** translucent fiberglass panels are the modern way to obtain efficient lighting and durable beauty in homes, offices or plants... with minimum maintenance. These tough, shatter-proof panels are available flat, corrugated and in a variety of other shapes.

**SUPERGLAZE** is one of the important advantages offered by Alsynite. Superglaze is a new, exclusive formulation that gives Alsynite panels far greater resistance to weathering and erosion than any other panel on the market today. Accelerated weathering tests for the equivalent of 6 to 8 years failed to affect Superglazed Alsynite. In addition, tests proved that Superglaze adds even greater strength to these tough, versatile building panels.

**FILTRON 25**, available in residential corrugated and Steplap® panels, solves the problem of radiant heat transmission. Filtron 25 actually reduces radiant heat transmission in residential panels to as low as 20% of that transmitted by ordinary translucent panels.

### ARCHITECTURAL SPECIFICATIONS

1. Panels shall be of uniform appearance and free of structural defects.
2. Panels shall have a nominal thickness of .060" and average weight shall be 8 oz. per sq. ft.  $\pm 10\%$ . Industrial Flat Panes shall have a nominal thickness of .080" and average weight shall be 9 oz. per sq. ft.  $\pm 10\%$ . Average glass reinforcement shall be 25% by weight.
3. Corrugations shall be \_\_\_\_\_ ( $1\frac{1}{4}" \times \frac{1}{4}"$ ,  $2\frac{1}{2}" \times \frac{1}{2}"$ ,  $2.67" \times \frac{7}{8}"$ ,  $4.2" \times 11/16"$ , 5V Crimp, 5.3" V-Beam, Steplap or Flat) and where specified shall nest with standard corrugated material.
4. Color shall be \_\_\_\_\_, with a radiant heat transmission of \_\_\_\_\_%. Light transmission shall be \_\_\_\_\_% when tested in accordance with ASTM 1494-57T. (See chart on inside pages of this folder for transmission figures.)
5. Panels shall show no loss of surface gloss nor evidence of exposed glass fibers after 1,000 hours of simulated accelerated weathering conditions in accordance with ASTM Method of Test E42-55T (Type D equipment).





# COMPLETE SPECIFICATIONS

## LOW HEAT AND LIGHT TRANSMISSION PANELS . . . . .

Colors	% Light Transmission	% Heat Transmission	Series	Weight Per Sq. Ft.	Thickness	Pattern	Depth	Surface
Blue	13	17	Riviera (#200 Superglaze)	8 oz.	.060"	2½" Corr.	½"	Crinkle
Green	20	25						
Lime	14	18						
Pink	8	16				5" Steplap	¾"	Smooth
Sand	12	17						
White	30	25						
Yellow	33	26						
Blue	17	20	Saratoga	6 oz.	.045"	2½" Corr.	½"	Crinkle
Green	29	35						
Lime	17	25						
Pink	11	25						
Sand	18	23						
White	41	33						
Yellow	37	34						
Blue	20	23	Sierra	5 oz.	.040"	2½" Corr.	½"	Smooth
Green	31	39						
Lime	19	31						
Pink	12	27						
Sand	19	30						
White	48	35						
Yellow	39	39						

## HIGH LIGHT TRANSMISSION PANELS . . . . .

						Flat		SBS (Smooth)
						1¼" Corr.	¼"	SBS (Smooth)
Clear	81	53	#200 Superglaze	8 oz.	.060"	2½" Corr.	½"	SBS (Smooth)
Lite Blue	54	50						
Lite Green	73	50				4.2" Corr.	1-1/16"	SBS (Smooth)
White	60	43				2.67" Corr.	⅜"	SBS (Smooth)
						5.3" V-Beam		SBS (Smooth)
						5-V Crimp		SBS (Smooth)
Light Green	75	55	#150 Industrial	6 oz.	.045"	1¼" Corr.	¼"	SBS (Smooth)
White	65	50				2½" Corr.	½"	SBS (Smooth)
Clear	85	60						

**NOTE:** Industry tolerances prevail. Other corrugations, shapes and curved sheets

**FIRE-RETARDANT PANELS:** Though standard fiberglass reinforced translucent panels are commonly regarded as fire resistant, they are technically termed a slow-burning plastic. For true fire-retardant (FR) panels, a special resin is used. These fire-retardant panels are technically termed a self-extinguishing material. This means that they will not support their own combustion. The material will burn if an exterior source of intense heat is continually applied to it, but it will not burn once this heat is removed.



# FLAT PANES . . . . . for industrial window glazing

Alsynite Flat Panes are translucent, shatterproof fiberglass-reinforced window panes designed specifically for industrial glazing. Exclusive Superglaze surface for durability and beauty, pebbled for added strength and rigidity. Five built-in colors: Amber, Clear, Cool Aqua, Lite Blue and Lite Green.

**FINISH** — Pebbled both sides; Superglaze

**DOUBLE STRENGTH — THICKNESS**, .060";

**WEIGHT**, 8 oz. per sq. ft.

**TRIPLE STRENGTH — THICKNESS**, .080";

**WEIGHT**, 9 oz. per sq. ft.

**SIZES** — To match all standard metal sash. Widths from 8" to 44"; lengths from 8" to 96".

COLORS	% LIGHT TRANSMISSION	% HEAT TRANSMISSION
Amber	49	46
Clear	70	49
Cool Aqua	43	39
Lite Blue	54	38
Lite Green	56	39

## . . . . . for residential outdoor overhead use

Guarantee	Filtron 25	Recommended Side Lap	Recommended Max. Span (Roofs)	Edge Position	Lengths	Widths	Panel Coverage	No. Corr. or Steps
10 Yr.	Yes	1 Corrugation	4' 0"	Both Down	8'-10'-12'	26"	24"	10
						34"	32"	13
						40"	37½"	15
	Yes	Side: 1½" End: 4"	2' 6"		8' 4"-10' 4"	31½" 41½"	30" 40"	6 8
5 Yr.	Yes	1 Corrugation	3' 6"	Both Down	8'-10'-12'	26"	24"	10
						34"	32"	13
No	Yes	1 Corrugation	3' 0"	Both Down	8'-10'-12'	26"	24"	10

## . . . . . for diffused lighting in partitions, screens, skylights, industrial daylighting

10 Yr.	No		4 sq. ft.		4'-8'	24"-36"		
10 Yr.	No	1½ Corrugations	3' 6"	1 Up, 1 Down	8'-10'-12'	26"	24"	20½
10 Yr.	No	1 Corrugation	4' 0"	Both Down	8'-10'-12'	26" 34" 40"	24" 32" 37½"	10 13 15
		1½ Corrugations	4' 0"	1 Up, 1 Down	8' 4"	27½"	24"	10½
10 Yr.	No	1 Corrugation	4' 6"	Both Down	8'-10'-12'	42"	37.8"	10
10 Yr.	No	1½ Corrugations	5' 0"	1 Up, 1 Down	8'-10'-12'	35"	32"	13½
10 Yr.	No	1 V	5' 0"	Both Down	7' 6"-9'-10' 6"	29"	26¾"	5½ V's
10 Yr.	No	2 Crimps	3' 0"	Both Down	8'-10'-12'	26"	24"	
No	No	1½ Corrugations	3' 0"	1 Up, 1 Down	8'-10'-12'	26"	24"	20½
No	No	1 Corrugation	3' 6"	Both Down	8'-10'-12'	26"	24"	10

available on special order. Write for quotations.



Alsynite FR panels with Superglaze for superior weather resistance are produced to the specifications of the Factory Mutual Laboratories. Only Factory Mutual labeled Alsynite panels are available with Superglaze.

Alsynite FR panels are also available with an Underwriters' Laboratories label indicating a very low flame spread rating of 60. Most building codes require a rating of 75 or below for fire-retardant materials. These panels are not Superglazed.

All high light transmission corrugations and shapes available in FR panels. Recommended color: Lite Green.



# technical reports

## FLAMMABILITY

When tested in accordance with ASTM Method of Test D635-56T, Alsynite has a flammability rate of 1.5 in./min. Tests conducted on Alsynite sheets installed as roofing and skylights indicate that burning brands may ignite the top surface of Alsynite, but the fire will not burn through and ignite the under surface of the panels. (For a copy of the complete report on this test, request Test Report T-2.)

## LOAD STRENGTH

Series 200, 2½" corrugated Alsynite panels installed over supports 4' apart will support 150 lbs./sq. ft. on a 4' span with end supports only. This is three times the requirement of most building codes. Recommended spans for other corrugations and series as given in the table will provide similar load carrying ability, taking into account maximum desirable deflection. (Complete details available in Test Report T-27.)

## SHATTERPROOF

One-inch ice particles projected at speeds up to 60 miles per hour against Alsynite panels did not damage the panels. (Complete details available in Test Report T-3.)

## CHEMICAL RESISTANCE

Alsynite's excellent resistance to most acids, mild alkalies and petroleum based solvents allows its use in many corrosive atmospheres. Alsynite may be easily cleaned with detergent cleaning solutions without damage to its surface. (Complete details available in Test Report T-6.)

## INSULATION VALUE

Alsynite has a thermal conductivity (K-factor) of 3 BTU/hr./sq. ft./in./°F, which is approximately one-half that of glass. Alsynite has a coefficient of heat transmission (U-factor) of 1.14 BTU/hr./sq. ft./°F. (Complete details available in Test Report T-7.)

## PROTECTION AGAINST FADING

Alsynite acts to filter out the harmful solar rays which cause fading and discoloration in many fabrics. (Complete details available in Test Report T-10.)

## IMPACT RESISTANCE

In a roof installation, sixty-pound bags of sand dropped on Alsynite panels from heights up to six feet caused no damage. Bags dropped from heights of 10 feet caused some crazing and small tears at the panel fasteners. In no case did the panel fail or tear loose from its supports. (Complete details available in Test Report T-14.)

## PHYSICAL PROPERTIES

Alsynite fiberglass panels have a high strength-to-weight ratio, with tensile strengths of over 10,000 psi and flexural strength over 20,000 psi. (Complete details available in Test Report T-25.)

## COEFFICIENT OF EXPANSION

Alsynite has a coefficient of linear expansion of  $1.6 \times 10^{-5}$  in./in./°F. This would amount to an expansion of approximately 3/16" in a 12' panel undergoing a temperature change of 100°F.

## WINDOW PANES

Alsynite Flat Panes fit standard sash, eliminate costly breakage and provide light and heat control with glareless, diffused light. Built-in colors meet every daylighting problem.

## SHOWERS, TUBS

Alsynite's Mist series was created for shower doors and tub enclosures. Delicate pastels are ideal for the modern bath. Shatterproof for perfect safety. Flat or corrugated panels.

## DECORATIVE

Alsynite decorated with em-  
bedments of natural foliage can add the perfect design touch as a partition or room divider. Also ideal for showers. Homes, motels, hotels.

## SPECIAL

Alsynite can be adapted to many special uses such as truck bodies, translucent sandwich panels, core panels and curtain walls. Curved sheets and other shapes on special order.

## NEW DESIGN ASSISTANCE

Alsynite research division can provide technical assistance in new design projects, offering you detailed information on its full potential.

**ALSYNITE COMPANY  
OF AMERICA**  
SAN DIEGO 9, CALIFORNIA

OTHER PLANTS:  
PORTSMOUTH, OHIO  
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